

SEQUENCE LISTING

<110> Nielsen, Per Munk

<120> Maltogenic Amylase-modified Starch Derivatives

<130> 6001.204-US

<160> 14

<170> PatentIn version 3.1

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Gly	Leu	Leu	Phe	Ser	Gly	Ser	Leu	Pro	Tyr	Asn	Pro	Asn	Ala	Ala	Glu	
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gcc	agc	agt	tcc	gca	agc	gtc	aaa	ggg	gac	gtg	att	tac	cag	att	atc	144
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Ile	Asp	Arg	Phe	Tyr	Asp	Gly	Asp	Thr	Thr	Asn	Asn	Asn	Pro	Ala	Lys	
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agt	tat	gga	ctt	tac	gat	ccg	acc	aaa	tcg	aag	tgg	aaa	atg	tat	tgg	240
Ser	Tyr	Gly	Leu	Tyr	Asp	Pro	Thr	Lys	Ser	Lys	Trp	Lys	Met	Tyr	Trp	
			35				40					45				

ggc	ggg	gat	ctg	gag	ggg	gtt	cgt	caa	aaa	ctt	cct	tat	ctt	aaa	cag	288
Gly	Gly	Asp	Leu	Glu	Gly	Val	Arg	Gln	Lys	Leu	Pro	Tyr	Leu	Lys	Gln	
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ctg	ggc	gta	acg	aca	atc	tgg	ttg	tcc	ccg	gtt	ttg	gac	aat	ctg	gat	336
Leu	Gly	Val	Thr	Thr	Ile	Trp	Leu	Ser	Pro	Val	Leu	Asp	Asn	Leu	Asp	
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Thr Leu Ala Gly Thr Asp Asn Thr Gly Tyr His Gly Tyr Trp Thr Arg	
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gat ttt aaa cag att gag gaa cat ttc ggg aat tgg acc aca ttt gac	432
Asp Phe Lys Gln Ile Glu Glu His Phe Gly Asn Trp Thr Thr Phe Asp	
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acg ttg gtc aat gat gct cac caa aac gga atc aag gtg att gtc gac	480
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Gly Leu Arg Ile Asp Ala Val Lys His Phe Asn Ser Gly Phe Ser Lys	
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Ser Leu Ala Asp Lys Leu Tyr Gln Lys Lys Asp Ile Phe Leu Val Gly	
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Arg Tyr Ala Asn Asn Ser Gly Val Asn Val Leu Asp Phe Asp Leu Asn	
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Thr Val Ile Arg Asn Val Phe Gly Thr Phe Thr Gln Thr Met Tyr Asp	
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Asn Leu Ile Thr Phe Ile Asp Asn His Asp Met Ser Arg Phe Leu Ser	
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Val Asn Ser Asn Lys Ala Asn Leu His Gln Ala Leu Ala Phe Ile Leu	
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Thr Thr Thr Thr Ala Phe Lys Glu Val Ser Thr Leu Ala Gly Leu Arg	
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Asn Asn Asp Val Tyr Ile Tyr Glu Arg Lys Phe Phe Asn Asp Val Val	
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Val Lys Val Thr Ala Gly Gly Val Ser Ser Asn Leu Tyr Ser Tyr Asn	
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Ile Leu Ser Gly Thr Gln Thr Ser Val Val Phe Thr Val Lys Ser Ala	
580 585 590	
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Pro Pro Thr Asn Leu Gly Asp Lys Ile Tyr Leu Thr Gly Asn Ile Pro	
595 600 605	
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610 615 620	
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Ser Val Pro Ala Gly Lys Thr Ile Gln Phe Lys Phe Phe Ile Lys Arg	
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660 665 670	
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Ser Tyr Gly Leu Tyr Asp Pro Thr Lys Ser Lys Trp Lys Met Tyr Trp
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Leu Gly Val Thr Thr Ile Trp Leu Ser Pro Val Leu Asp Asn Leu Asp
65 70 75

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Asp Phe Lys Gln Ile Glu Glu His Phe Gly Asn Trp Thr Thr Phe Asp
100 105 110

Thr Leu Val Asn Asp Ala His Gln Asn Gly Ile Lys Val Ile Val Asp
115 120 125

Phe Val Pro Asn His Ser Thr Pro Phe Lys Ala Asn Asp Ser Thr Phe
130 135 140

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145 150 155

Phe Asp Asp Ala Thr Lys Gly Tyr Phe His His Asn Gly Asp Ile Ser
160 165 170 175

Asn Trp Asp Asp Arg Tyr Glu Ala Gln Trp Lys Asn Phe Thr Asp Pro
180 185 190

Ala Gly Phe Ser Leu Ala Asp Leu Ser Gln Glu Asn Gly Thr Ile Ala
195 200 205

Gln Tyr Leu Thr Asp Ala Ala Val Gln Leu Val Ala His Gly Ala Asp
210 215 220

Gly Leu Arg Ile Asp Ala Val Lys His Phe Asn Ser Gly Phe Ser Lys
225 230 235

Ser Leu Ala Asp Lys Leu Tyr Gln Lys Lys Asp Ile Phe Leu Val Gly
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Glu Trp Tyr Gly Asp Asp Pro Gly Thr Ala Asn His Leu Glu Lys Val
 260 265 270

Arg Tyr Ala Asn Asn Ser Gly Val Asn Val Leu Asp Phe Asp Leu Asn
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Leu Asn Asn Met Val Asn Gln Thr Gly Asn Glu Tyr Lys Tyr Lys Glu
 305 310 315

Asn Leu Ile Thr Phe Ile Asp Asn His Asp Met Ser Arg Phe Leu Ser
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Val Asn Ser Asn Lys Ala Asn Leu His Gln Ala Leu Ala Phe Ile Leu
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Ser Val Pro Ala Gly Lys Thr Ile Gln Phe Lys Phe Phe Ile Lys Arg
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